



IFW16

RAW SEQUENCE LISTING

DATE: 07/26/2004

PATENT APPLICATION: US/09/674,237B

TIME: 15:38:46

Input Set : A:\3477.89.ST25.txt

Output Set: N:\CRF4\07262004\I674237B.raw

3 <110> APPLICANT: Egan, Sean E.
 4 Wang, Wei
 5 Sengar, Ameet
 7 <120> TITLE OF INVENTION: ESE GENES AND PROTEINS
 9 <130> FILE REFERENCE: 3477.89
 11 <140> CURRENT APPLICATION NUMBER: US 09/674,237B
 C--> 12 <141> CURRENT FILING DATE: 2001-07-24
 14 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00375
 15 <151> PRIOR FILING DATE: 1999-04-27
 17 <150> PRIOR APPLICATION NUMBER: US 60/118,739
 18 <151> PRIOR FILING DATE: 1999-02-05
 20 <150> PRIOR APPLICATION NUMBER: CA 2230201
 21 <151> PRIOR FILING DATE: 1998-04-27
 23 <160> NUMBER OF SEQ ID NOS: 35
 25 <170> SOFTWARE: PatentIn version 3.2
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 5084
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Mus musculus
 32 <400> SEQUENCE: 1
 33 cggcacgagg aggagtggag cggcgcgagg gggcgcgag cttggttgct ccgtagtacg 60
 35 gcggctcgca agggagcatc ccgagcgggc tccgggacgg ccgggaggca ggcaggcggg 120
 37 cgggcgggga tgggtgtgcgc ggctgcggac tccgcgttcc tcgcgcggcg tgcgggctgc 180
 39 actgatttgt gtgaggggag ggcgcgcgca cccgcccggga gatgaggcgt cgatcagcaa 240
 41 ggtgaacgta atagaaccat ggctcagttt cccacacctt tcggtggtag cctggatgtc 300
 43 tgggccataa ctgtggagga aagggccaaag catgaccagc agttccttag cctgaagccg 360
 45 atagcgggat ttattactgg tgatcaagcg aggaactttt ttttccaatc tgggttacct 420
 47 cagcctgtct tagcacaaat atgggcgcta gcggacatga ataacgatgg aaggatggat 480
 49 caagtggaat tttccatagc catgaagctt atcaaaactga agctacaagg atatcagctc 540
 51 ccctccacac ttccccctgt catgaaacag caaccagtgg ctatttccag tgcaccagca 600
 53 tttggtatag gagggattgc tagcatgcca ccactcacag ctggtgctcc tgtgccaatg 660
 55 ggctccattc cagttgttgg aatgtctcca cccttagtat cttctgtccc tccagcagca 720
 57 gtgcctcccc tggttaacgg ggctcctccc gtcatacagc ctctgcctgc gtttgccgat 780
 59 cctgcagcca catggccaaa gagttcttcc ttcagcagat ctggtccagg gtcacaatta 840
 61 aacactaagt tacagaaggc acaatcattc gatgtcgcca gcgcccctcc agcagcagaa 900
 63 tgggctgtgc ctcatgcac aaggctgaaa tacaggcagt tattcaacag ccacgacaaa 960
 65 actatgagtg gacacttaac aggtccccag gcaagaacta ttctcatgca atcaagttaa 1020
 67 ccccaggctc agctggcttc aatatggaat ctttctgaca ttgatcaaga tggaaaactc 1080
 69 acccagaag aatttatcct agctatgcac ctaattgatg ttgccatgtc tggtcagcca 1140
 71 ctgccgcccc tctgcctccc agaatacatc cctccttccc tcagaagagt tcgctccggc 1200
 73 agtgggatgt ccgtcataag ctcttcttct gtggatcaga ggctgcctga ggagccgtcg 1260
 75 tcagaggatg agcagcagcc agagaagaaa ctgcctgtga catttgaaga taagaagcgg 1320
 77 gagaacttcg agcgaggcag tgtggagctg gagaagcgcc gccaaagcgt cttggagcag 1380



P. 6

RAW SEQUENCE LISTING

DATE: 07/26/2004

PATENT APPLICATION: US/09/674,237B

TIME: 15:38:46

Input Set : A:\3477.89.ST25.txt

Output Set: N:\CRF4\07262004\I674237B.raw

```

79 cagcgcaaag agcaggagcg gttggctcag ctggagcgcg ccgagcagga gaggaaagag 1440
81 cgggagcgcc aggagcagga ggccaagcgg cagctggagc tggagaagca gctggagaag 1500
83 cagcgggagc tggagcggca gcgagaggag gagaggagga aggagatcga gaggcgcgag 1560
85 gccgcaaaac ggggaactgga aaggcagcga caacttgaat gggaacggaa ccggagacag 1620
87 gaactcctga atcagaggaa caaggagcag gagggcaccg tggtcctgaa ggcaaggagg 1680
89 aagactctgg agtttgagtt agaagctctg aatgacaaaa agcatcagct agaaggaaaa 1740
91 cttcaggata tcaggtgtcg actggcaacc cagaggcaag aaattgagag cacgaacaag 1800
93 tctagagagc taagaattgc tgaaatcacc cacttacagc agcagttgca ggaatctcag 1860
95 caaatgcttg gaagacttat tccagagaaa cagatactca gtgaccagtt aaaacaagtc 1920
97 cagcagaaca gtttgcatag agactcgctt cttaccctca aaagagcctt ggaagcaaag 1980
99 gagctggccc ggcagcagct ccgggagcag ctggacgagg tggagagaga gaccagggtca 2040
101 aagctgcagg agattgatgt ttccaacaac cagctgaagg aactgagaga gatacatagc 2100
103 aaacagcaac tccagaagca gaggtccctg gaggcagcgc gactgaagca gaaagagcag 2160
105 gagaggaaga gcctggagtt agagaagcaa aaggaagacg ctgagagacg agttcaggaa 2220
107 agggacaagc aatggctgga gcatgtgcag caggaggagc agccacgccc ccggaaaccc 2280
109 cacgaggagg acagactgaa gaggggaagc agtgtcagga agaaggaggc ggaagagaga 2340
111 gccaaagccg aaatgcaaga caagcagagt cggcttttcc atccgcatca ggagccagct 2400
113 aagctggcca cccaggcacc ctggtctacc acagagaaaag gcccgcttac catttctgca 2460
115 caggagagtg taaaagtggg atattaccga gcgctgtacc cctttgaatc cagaagtcac 2520
117 gatgagatca ccatccagcc aggagatata gtcattggtg atgaaagcca gactggagag 2580
119 ccaggatggc ttggaggaga gctgaaaggg aagacgggat gggtccctgc aaactatgca 2640
121 gaaaagattc cagaaaatga ggttccact ccagccaaac cagtgaccga tctgacatct 2700
123 gcccctgccc ccaactggc tctgcgtgag acccctgctc ctttgccagt gacctcttct 2760
125 gagccctcca caacccccaa caactgggca gacttcagtt ccacgtggcc cagcagctca 2820
127 aacgagaagc cagaaacgga caactgggat acgtgggcgg ctgagccttc tctgaccgta 2880
129 cctagtgtcg gccagttacg gcagagatca gcctttaccc cagccacagc cactggctcc 2940
131 tccccatctc ccgtcctggg ccagggtgaa aaggtggaag ggctacaagc gcaagccctg 3000
133 tatccctgga gagccaaaaa agacaaccac ttaaatttta acaaaagtga cgtcatcacc 3060
135 gttctggaac agcaagacat gtggtgggtt ggagaagttc aaggtcagaa ggggtgggtc 3120
137 cccaagtctt acgtgaaact ctttccaggg ccgtaagga aatccacaag catcgatact 3180
139 ggccctactg aaagtctctg tagtctaaag agagtggctt ccccgccgc caagccagcc 3240
141 attcccgag aagagtttat tgccatgtac acatacgaga gttctgagca aggagattta 3300
143 acctttcagc aaggggatgt gattgtggtt accaagaaag atggtgactg gtggacggga 3360
145 acggtggcg acaagtccgg agtcttccct tctaactatg tgaggcttaa agattcagag 3420
147 ggctctggaa ctgctgggaa aacagggagt ttaggaaaaa aacctgaaat tgcccagggt 3480
149 attgcttctt acgtgcttac tgggtccgaa caactcacc tggctcctgg gcagctgatt 3540
151 ctgatccgga aaaagaaccc aggtggatgg tgggaaggag aactgcaagc tcgagggaaa 3600
153 aagcgccaga tagggtgggt tccagcaaat tatgtcaaac ttctaagccc cggacaagc 3660
155 aaaatcacc caactgagct acccaagacc gcagtgcagc cagcagtgtg ccagggtgatc 3720
157 gggatgtacg attacaccgc ccagaacgat gacgaactag ctttcagcaa aggccagatc 3780
159 atcaacgtcc tcaacaagga ggaccggac tggtggaag gagaagttag tgggcaagtt 3840
161 gggctcttcc catccaatta tgtaaagctg accacagaca tggaccccag ccagcaatga 3900
163 atcatatgtt gtccatcccc cctcaggct tgaaagtctt caaagagacc cactatccca 3960
165 tatcactgcc cagagggatg atgggagatg cagccttgat catgtgactt gcagcatgat 4020
167 cacctactgc cttctgagta gaagaactca ctgcagagca gtttacctca tttgacctta 4080
169 gttgcatgtg atcgaaatgt ctgagtcact gcgtgcagag gcagaagcaa attgcgaac 4140
171 tgcacagggt ggtgggtcct tttggggctt tctagtcac tcagactgac cggccccgcc 4200
173 ttcacacggg cgttttcaat agttttaaga ttatttttaa atgtgtattt tagcctttta 4260
175 ataaaaatct caatcaatta cttctttgcc tattttgggt ttacaaaaac acccactatc 4320

```

RAW SEQUENCE LISTING

DATE: 07/26/2004

PATENT APPLICATION: US/09/674,237B

TIME: 15:38:46

Input Set : A:\3477.89.ST25.txt

Output Set: N:\CRF4\07262004\I674237B.raw

```

177 aaggagtgcc tgtctgcgga cgattaaaat gctgttccgg gcgtaccgta aactgagagc 4380
179 ttgctgtacc tttgccgttt gtccagtgtt cccaaccaca ttgtgtagtt tggggctgtt 4440
181 ccctgccgta gagcacagag gagatgggtg tacctgtttt gaaaatgtgt atgtagactg 4500
183 agcctgacta tggaaggggt tatgcttgtc tgtgaccatc acgtgtacct gtgcgcgatg 4560
185 taccatctgt accgaagaag tagctcttcc tccatggcta aaccaccac cgtgtacagt 4620
187 gctctcatct actgcattca ttttactttg cacagtgacc ttgtagccac ctgaggaagc 4680
189 acccatgttt ccgtttggtc tcagatgtac ctagttgtgc ccgtgttttg tttttatttt 4740
191 tcaatctggc atgtcttcac accataaact agtaagacgc caactgccc aaggcgttacg 4800
193 atcatcagta cccaccgtct tagtctctgt tacgtgaagt ttattccagt tgctttttat 4860
195 ggaatatctt gaacaagtaa tcttcttgac aagaaagaat gtatagaagt ctccctgcaa 4920
197 ttaatttccc agtgtttaca ttttttaact agactgtggg ggttgctaca gattaatatg 4980
199 aaatggcgct cctggccgt gtgtgtgta actgtgctg tagctgaagc cgtgtgtcct 5040
201 tagatattag ttggaagtcg ggaagagaat tcgatatcaa gctt 5084
204 <210> SEQ ID NO: 2
205 <211> LENGTH: 3642
206 <212> TYPE: DNA
207 <213> ORGANISM: Mus musculus
210 <220> FEATURE:
211 <221> NAME/KEY: CDS
212 <222> LOCATION: (1)..(3642)
213 <223> OTHER INFORMATION: Mouse Esei
215 <400> SEQUENCE: 2
216 atg gct cag ttt ccc aca cct ttc ggt ggt agc ctg gat gtc tgg gcc 48
217 Met Ala Gln Phe Pro Thr Pro Phe Gly Gly Ser Leu Asp Val Trp Ala
218 1 5 10 15
220 ata act gtg gag gaa agg gcc aag cat gac cag cag ttc ctt agc ctg 96
221 Ile Thr Val Glu Arg Ala Lys His Asp Gln Gln Phe Leu Ser Leu
222 20 25 30
224 aag ccg ata gcg gga ttt att act ggt gat caa gcg agg aac ttt ttt 144
225 Lys Pro Ile Ala Gly Phe Ile Thr Gly Asp Gln Ala Arg Asn Phe Phe
226 35 40 45
228 ttc caa tct ggg tta cct cag cct gtc tta gca caa ata tgg gcg cta 192
229 Phe Gln Ser Gly Leu Pro Gln Pro Val Leu Ala Gln Ile Trp Ala Leu
230 50 55 60
232 gcg gac atg aat aac gat gga agg atg gat caa gtg gaa ttt tcc ata 240
233 Ala Asp Met Asn Asn Asp Gly Arg Met Asp Gln Val Glu Phe Ser Ile
234 65 70 75 80
236 gcc atg aag ctt atc aaa ctg aag cta caa gga tat cag ctc ccc tcc 288
237 Ala Met Lys Leu Ile Lys Leu Lys Leu Gln Gly Tyr Gln Leu Pro Ser
238 85 90 95
240 aca ctt ccc cct gtc atg aaa cag caa cca gtg gct att tcc agt gca 336
241 Thr Leu Pro Pro Val Met Lys Gln Gln Pro Val Ala Ile Ser Ser Ala
242 100 105 110
244 cca gca ttt ggt ata gga ggg att gct agc atg cca cca ctc aca gct 384
245 Pro Ala Phe Gly Ile Gly Gly Ile Ala Ser Met Pro Pro Leu Thr Ala
246 115 120 125
248 gtt gct cct gtg cca atg ggc tcc att cca gtt gtt gga atg tct cca 432
249 Val Ala Pro Val Pro Met Gly Ser Ile Pro Val Val Gly Met Ser Pro
250 130 135 140

```

RAW SEQUENCE LISTING

DATE: 07/26/2004

PATENT APPLICATION: US/09/674,237B

TIME: 15:38:46

Input Set : A:\3477.89.ST25.txt

Output Set: N:\CRF4\07262004\I674237B.raw

252	ccc	tta	gta	tct	tct	gtc	cct	cca	gca	gca	gtg	cct	ccc	ctg	gct	aac	480
253	Pro	Leu	Val	Ser	Ser	Val	Pro	Pro	Ala	Ala	Val	Pro	Pro	Leu	Ala	Asn	
254	145					150					155					160	
256	ggg	gct	cct	ccc	gtc	ata	cag	cct	ctg	cct	gcg	ttt	gcg	cat	cct	gca	528
257	Gly	Ala	Pro	Pro	Val	Ile	Gln	Pro	Leu	Pro	Ala	Phe	Ala	His	Pro	Ala	
258					165					170						175	
260	gcc	aca	tgg	cca	aag	agt	tct	tcc	ttc	agc	aga	tct	ggg	cca	ggg	tca	576
261	Ala	Thr	Trp	Pro	Lys	Ser	Ser	Ser	Phe	Ser	Arg	Ser	Gly	Pro	Gly	Ser	
262				180					185					190			
264	caa	tta	aac	act	aag	tta	cag	aag	gca	caa	tca	ttc	gat	gtc	gcc	agc	624
265	Gln	Leu	Asn	Thr	Lys	Leu	Gln	Lys	Ala	Gln	Ser	Phe	Asp	Val	Ala	Ser	
266			195					200					205				
268	gcc	cct	cca	gca	gca	gaa	tgg	gct	gtg	cct	cag	tca	tca	agg	ctg	aaa	672
269	Ala	Pro	Pro	Ala	Ala	Glu	Trp	Ala	Val	Pro	Gln	Ser	Ser	Arg	Leu	Lys	
270		210					215						220				
272	tac	agg	cag	tta	ttc	aac	agc	cac	gac	aaa	act	atg	agt	gga	cac	tta	720
273	Tyr	Arg	Gln	Leu	Phe	Asn	Ser	His	Asp	Lys	Thr	Met	Ser	Gly	His	Leu	
274	225				230					235						240	
276	aca	ggg	ccc	cag	gca	aga	act	att	ctc	atg	caa	tca	agt	tta	ccc	cag	768
277	Thr	Gly	Pro	Gln	Ala	Arg	Thr	Ile	Leu	Met	Gln	Ser	Ser	Leu	Pro	Gln	
278				245					250						255		
280	gct	cag	ctg	gct	tca	ata	tgg	aat	ctt	tct	gac	att	gat	caa	gat	gga	816
281	Ala	Gln	Leu	Ala	Ser	Ile	Trp	Asn	Leu	Ser	Asp	Ile	Asp	Gln	Asp	Gly	
282			260						265					270			
284	aaa	ctc	act	gca	gaa	gaa	ttt	atc	cta	gct	atg	cac	cta	att	gat	gtt	864
285	Lys	Leu	Thr	Ala	Glu	Glu	Phe	Ile	Leu	Ala	Met	His	Leu	Ile	Asp	Val	
286			275					280					285				
288	gcc	atg	tct	ggg	cag	cca	ctg	ccg	ccc	gtc	ctg	cct	cca	gaa	tac	atc	912
289	Ala	Met	Ser	Gly	Gln	Pro	Leu	Pro	Pro	Val	Leu	Pro	Pro	Glu	Tyr	Ile	
290		290				295						300					
292	cct	cct	tcc	ttc	aga	aga	gtt	cgc	tcc	ggc	agt	ggg	atg	tcc	gtc	ata	960
293	Pro	Pro	Ser	Phe	Arg	Arg	Val	Arg	Ser	Gly	Ser	Gly	Met	Ser	Val	Ile	
294	305				310					315						320	
296	agc	tct	tct	tct	gtg	gat	cag	agg	ctg	cct	gag	gag	ccg	tcg	tca	gag	1008
297	Ser	Ser	Ser	Ser	Val	Asp	Gln	Arg	Leu	Pro	Glu	Glu	Pro	Ser	Ser	Glu	
298				325					330					335			
300	gat	gag	cag	cag	cca	gag	aag	aaa	ctg	cct	gtg	aca	ttt	gaa	gat	aag	1056
301	Asp	Glu	Gln	Gln	Pro	Glu	Lys	Lys	Leu	Pro	Val	Thr	Phe	Glu	Asp	Lys	
302			340						345					350			
304	aag	cgg	gag	aac	ttc	gag	cga	ggc	agt	gtg	gag	ctg	gag	aag	cgc	cgc	1104
305	Lys	Arg	Glu	Asn	Phe	Glu	Arg	Gly	Ser	Val	Glu	Leu	Glu	Lys	Arg	Arg	
306			355					360					365				
308	caa	gcg	ctc	ttg	gag	cag	cag	cgc	aaa	gag	cag	gag	cgg	ttg	gct	cag	1152
309	Gln	Ala	Leu	Leu	Glu	Gln	Arg	Lys	Glu	Gln	Glu	Arg	Leu	Ala	Gln		
310		370				375					380						
312	ctg	gag	cgc	gcc	gag	cag	gag	agg	aaa	gag	cgg	gag	cgc	cag	gag	cag	1200
313	Leu	Glu	Arg	Ala	Glu	Gln	Glu	Arg	Lys	Glu	Arg	Glu	Arg	Gln	Glu	Gln	
314	385				390					395						400	
316	gag	gcc	aag	cgg	cag	ctg	gag	ctg	gag	aag	cag	ctg	gag	aag	cag	cgg	1248

RAW SEQUENCE LISTING

DATE: 07/26/2004

PATENT APPLICATION: US/09/674,237B

TIME: 15:38:46

Input Set : A:\3477.89.ST25.txt

Output Set: N:\CRF4\07262004\I674237B.raw

317	Glu	Ala	Lys	Arg	Gln	Leu	Glu	Leu	Glu	Lys	Gln	Leu	Glu	Lys	Gln	Arg	
318					405					410					415		
320	gag	ctg	gag	cgg	cag	cga	gag	gag	gag	agg	agg	aag	gag	atc	gag	agg	1296
321	Glu	Leu	Glu	Arg	Gln	Arg	Glu	Glu	Glu	Arg	Arg	Lys	Glu	Ile	Glu	Arg	
322					420					425					430		
324	cgc	gag	gcc	gca	aaa	cgg	gaa	ctg	gaa	agg	cag	cga	caa	ctt	gaa	tgg	1344
325	Arg	Glu	Ala	Ala	Lys	Arg	Glu	Leu	Glu	Arg	Gln	Arg	Gln	Leu	Glu	Trp	
326					435					440					445		
328	gaa	cgg	aac	cgg	aga	cag	gaa	ctc	ctg	aat	cag	agg	aac	aag	gag	cag	1392
329	Glu	Arg	Asn	Arg	Arg	Gln	Glu	Leu	Leu	Asn	Gln	Arg	Asn	Lys	Glu	Gln	
330					450					455					460		
332	gag	ggc	acc	gtg	gtc	ctg	aag	gca	agg	agg	aag	act	ctg	gag	ttt	gag	1440
333	Glu	Gly	Thr	Val	Val	Leu	Lys	Ala	Arg	Arg	Lys	Thr	Leu	Glu	Phe	Glu	
334	465					470					475					480	
336	tta	gaa	gct	ctg	aat	gac	aaa	aag	cat	cag	cta	gaa	gga	aaa	ctt	cag	1488
337	Leu	Glu	Ala	Leu	Asn	Asp	Lys	Lys	His	Gln	Leu	Glu	Gly	Lys	Leu	Gln	
338					485					490					495		
340	gat	atc	agg	tgt	cga	ctg	gca	acc	cag	agg	caa	gaa	att	gag	agc	acg	1536
341	Asp	Ile	Arg	Cys	Arg	Leu	Ala	Thr	Gln	Arg	Gln	Glu	Ile	Glu	Ser	Thr	
342					500					505					510		
344	aac	aag	tct	aga	gag	cta	aga	att	gct	gaa	atc	acc	cac	tta	cag	cag	1584
345	Asn	Lys	Ser	Arg	Glu	Leu	Arg	Ile	Ala	Glu	Ile	Thr	His	Leu	Gln	Gln	
346					515					520					525		
348	cag	ttg	cag	gaa	tct	cag	caa	atg	ctt	gga	aga	ctt	att	cca	gag	aaa	1632
349	Gln	Leu	Gln	Glu	Ser	Gln	Gln	Met	Leu	Gly	Arg	Leu	Ile	Pro	Glu	Lys	
350					530					535					540		
352	cag	ata	ctc	agt	gac	cag	tta	aaa	caa	gtc	cag	cag	aac	agt	ttg	cat	1680
353	Gln	Ile	Leu	Ser	Asp	Gln	Leu	Lys	Gln	Val	Gln	Gln	Asn	Ser	Leu	His	
354	545					550					555					560	
356	aga	gac	tcg	ctt	ctt	acc	ctc	aaa	aga	gcc	ttg	gaa	gca	aag	gag	ctg	1728
357	Arg	Asp	Ser	Leu	Leu	Thr	Leu	Lys	Arg	Ala	Leu	Glu	Ala	Lys	Glu	Leu	
358					565					570					575		
360	gcc	cgg	cag	cag	ctc	cgg	gag	cag	ctg	gac	gag	gtg	gag	aga	gag	acc	1776
361	Ala	Arg	Gln	Gln	Leu	Arg	Glu	Gln	Leu	Asp	Glu	Val	Glu	Arg	Glu	Thr	
362					580					585					590		
364	agg	tca	aag	ctg	cag	gag	att	gat	gtt	ttc	aac	aac	cag	ctg	aag	gaa	1824
365	Arg	Ser	Lys	Leu	Gln	Glu	Ile	Asp	Val	Phe	Asn	Asn	Gln	Leu	Lys	Glu	
366					595					600					605		
368	ctg	aga	gag	ata	cat	agc	aaa	cag	caa	ctc	cag	aag	cag	agg	tcc	ctg	1872
369	Leu	Arg	Glu	Ile	His	Ser	Lys	Gln	Gln	Leu	Gln	Lys	Gln	Arg	Ser	Leu	
370					610					615					620		
372	gag	gca	gcg	cga	ctg	aag	cag	aaa	gag	cag	gag	agg	aag	agc	ctg	gag	1920
373	Glu	Ala	Ala	Arg	Leu	Lys	Gln	Lys	Glu	Gln	Glu	Arg	Lys	Ser	Leu	Glu	
374	625					630					635					640	
376	tta	gag	aag	caa	aag	gaa	gac	gct	cag	aga	cga	gtt	cag	gaa	agg	gac	1968
377	Leu	Glu	Lys	Gln	Lys	Glu	Asp	Ala	Gln	Arg	Arg	Val	Gln	Glu	Arg	Asp	
378					645					650					655		
380	aag	caa	tgg	ctg	gag	cat	gtg	cag	cag	gag	gag	cag	cca	cgc	ccc	cgg	2016
381	Lys	Gln	Trp	Leu	Glu	His	Val	Gln	Gln	Glu	Glu	Gln	Pro	Arg	Pro	Arg	

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/674,237B

DATE: 07/26/2004
TIME: 15:38:47

Input Set : A:\3477.89.ST25.txt
Output Set: N:\CRF4\07262004\I674237B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; N Pos. 102,103

VERIFICATION SUMMARY

DATE: 07/26/2004

PATENT APPLICATION: US/09/674,237B

TIME: 15:38:47

Input Set : A:\3477.89.ST25.txt

Output Set: N:\CRF4\07262004\I674237B.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:2218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:60